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2 [ButterflyNet: a mobile capture and access system for field biology research](#)

Ron Yeh, Chunyuan Liao, Scott Klemmer, Francois Guimbretiere, Brian Lee, Boyko Kakaradov, Jeannie Stamberger, Andreas Paepcke

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Publisher: ACM

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Through a study of field biology practices, we observed that biology fieldwork generates a wealth of heterogeneous information, requiring substantial labor to coordinate and distill. To manage this data, biologists leverage a diverse set of tools, organizing ...

Keywords: augmented paper notebook, mobile capture and access

3 [Designing an architecture for delivering mobile information services to the rural developing world](#)

Tapan S. Parikh, Edward D. Lazowska

May WWW '06: Proceedings of the 15th international conference on World Wide Web 2006 Web

Publisher: ACM

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Implementing successful rural computing applications requires addressing a number of significant challenges. Recent advances in mobile phone computing capabilities make this device a likely candidate to address the client hardware constraints. Long battery ...

Keywords: ICT, client-server distributed systems, mobile computing, mobile phones, paper user interface, rural development

4 [Queue: Volume 6 Issue 3](#)



May 2008

Queue

Publisher: ACM

Full text available: Digital Edition, Pdf (5.56 MB)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 135, Downloads (12 Months): 294, Citation Count: 0

5 [PaperPoint: a paper-based presentation and interactive paper prototyping tool](#)



[Beet Signer](#), [Moira C. Norrie](#)

February TEI '07: Proceedings of the 1st international conference on Tangible and embedded interaction

Publisher: ACM

Full text available: Pdf (843.61 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 240, Citation Count: 1

Recent developments in digital pen and paper solutions enable, not only the digital capture of handwriting, but also paper to be used as an interactive medium that links to digital information and services. We present a tool that builds on technologies ...

Keywords: paper user interface, pen-based input, presentation tool, rapid prototyping

6 [Augmenting paper to enhance community information sharing](#)



[Antonietta Grasso](#), [Alain Karseniy](#), [Marco Susani](#)

April DARE '00: Proceedings of DARE 2000 on Designing augmented reality environments

Publisher: ACM

Full text available: Pdf (903.95 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 98, Citation Count: 3

Paper is traditionally considered as a major gap between the physical and electronic worlds, especially after the many attempts that have failed to attain a completely digital world. Paper based artifacts have many affordances that people want to continue ...

Keywords: augmented reality, paper user interface, recommender systems

7 [Ubiquitous annotation systems: technologies and challenges](#)



Frank Allan Hansen

August 2006 HYPERTEXT '06: Proceedings of the seventeenth conference on Hypertext and hypermedia

Publisher: ACM

Full text available: Pdf (1.29 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 170, Citation Count: 0

Ubiquitous annotation systems allow users to annotate physical places, objects, and persons with digital information. Especially in the field of location based information systems much work has been done to implement adaptive and context-aware systems, ...

Key words: annotation, context-aware computing, mobile computing, ubiquitous hypermedia

8 [Mobile phone based AR scene assembly](#)



Anders Henrysson, Mark Ojila, Mark Billinghurst

December 2005 MUM '05: Proceedings of the 4th international conference on Mobile and ubiquitous multimedia

Publisher: ACM

Full text available: Pdf (193.31 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 128, Citation Count: 1

In this paper we describe a mobile phone based Augmented Reality application for 3D scene assembly. Augmented Reality on mobile phones extends the interaction capabilities on such handheld devices. It adds a 6 DOF isomorphic interaction technique for ...

Key words: CAD, augmented reality, mobile phone

9 [NANA: A nano-scale active network architecture](#)



Jaidev P. Patwardhan, Chris Dwyer, Alvin R. Lebeck, Daniel J. Sorin

January 2006 Journal on Emerging Technologies in Computing Systems (JETC) , Volume 2 Issue 1

Publisher: ACM

Full text available: Pdf (5.31 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 212, Citation Count: 2

This article explores the architectural challenges introduced by emerging bottom-up fabrication of nanoelectronic circuits. The specific nanotechnology we explore proposes patterned DNA nanostructures as a scaffold for the placement and interconnection ...

Key words: Accumulator ISA, DNA, active network, carbon nanotube, defect isolation, defect tolerance, nanocomputing, nanoelectronics, reverse path forwarding, self-assembly

10 [Using visual tags to bypass Bluetooth device discovery](#)



David Scott, Richard Sharp, Anil Madhavapeddy, Eben Upton

January 2005 SIGMOBILE Mobile Computing and Communications Review , Volume 9 Issue 1

Publisher: ACM

Full text available: Pdf (311.14 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 176, Citation Count: 7

One factor that has limited the use of Bluetooth as a networking technology for publicly accessible mobile services is the way in which it handles Device Discovery. Establishing a Bluetooth connection between two devices that have not seen each other ...

11 [Interaction techniques for using handhelds and PCs together in a clinical setting](#)



Ole Andre Aisos, Dag Svanæs

October 2006 NordiCHI '06: Proceedings of the 4th Nordic conference on Human-computer interaction: changing roles

Publisher: ACM

Full text available: Pdf (743.33 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 169, Citation Count: 0

In the present study we compare interaction techniques for using handheld devices together with stationary displays in a hospital setting. A set of prototype implementations were developed and tested for a pre-surgery scenario with pairs of physicians ...

Keywords: electronic patient records, interaction techniques, mobile computing, multi-device user interfaces, ubiquitous computing, usability

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